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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/841,817	04/24/2001	Chih-Ning Wu	JC-6987-C	6297	
7:	590 01/06/2003				
	RLES C.H. WU & ASSOCIATES EXAMINER		NER		
	CENTER DRIVE		KORNAKOV	KORNAKOV, MICHAIL	
Irvine, CA 92	618-3043		ART UNIT	PAPER NUMBER	
			1746	9 .	
			DATE MAILED: 01/06/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

			AS-8
· · ·	Application No.	Applicant(s)	
Ì	09/841,817	WU ET AL.	
Office Action Summary	Examiner	Art Unit	
`	Michael Kornakov	1746	
The MAILING DATE of this communication a	appears on the cover sheet	with the correspondence addre	ess
Period for Reply A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perions - Failure to reply within the set or extended period for reply will, by stated and the period for reply will, by stated and the period for reply will. Status Status	N. 1.136(a). In no event, however, may reply within the statutory minimum of od will apply and will expire SIX (6) Not tute, cause the application to become illing date of this communication, even	a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this commet ABANDONED (35 U.S.C. § 133).	nunication.
1) Responsive to communication(s) filed on 2	<u> 4 April 2001</u> .		
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice und Disposition of Claims			nerits is
4)⊠ Claim(s) <u>1-20</u> is/are pending in the applicat	ion		
4a) Of the above claim(s) is/are withd			1
5) Claim(s) is/are allowed.			
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.	or alastian requirement		
8)⊠ Claim(s) <u>1-20</u> are subject to restriction and/o Application Papers	or election requirement.		
9) ☐ The specification is objected to by the Exami			
10) ☐ The drawing(s) filed on is/are: a) ☐ ac	cepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to	<u> </u>	•	
11)☐ The proposed drawing correction filed on		disapproved by the Examiner.	
If approved, corrected drawings are required in	• •		
12) ☐ The oath or declaration is objected to by the	Examiner.		
Priority under 35 U.S.C. §§ 119 and 120			
13) ☐ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.	C. § 119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
 Certified copies of the priority docume 	ents have been received.		
Certified copies of the priority docume	ents have been received in	Application No	
 3. Copies of the certified copies of the papplication from the International * See the attached detailed Office action for a I 	Bureau (PCT Rule 17.2(a))).	age
14) ☐ Acknowledgment is made of a claim for dome	estic priority under 35 U.S.	C. § 119(e) (to a provisional ap	oplication).
 a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dome 	• • •		
Attachment(s)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s 	5) 🔲 Notice	ew Summary (PTO-413) Paper No(s). of Informal Patent Application (PTO-1	

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-9, drawn to a cleaning method, classified in class 134, subclass
 26.
 - II. Claims 10-20, drawn to a different cleaning method, classified in class134, subclass 26.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions of Group I and Group II are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the inventions of Group I and II are not disclosed as capable of use together. This is supported by the instant disclosure, page 3, lines 12-15, wherein Applicants recite two cleaning methods, the **first method**, which uses a fluorine based organic solvent and an **alternative cleaning method**, which uses a hydrogen peroxide at a high temperature followed by a hydrofluoric acid solvent cleaning step. The recited methods have different modes of operation, because the wet processing of the first method (invention of Group I) requires the use of fluorine based organic solvent, and the wet processing of the alternative method (invention of Group II) requires a two steps procedure, wherein the first post-etching cleaning wet step requires

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the use of oxidizing agent based solvent and the second post-etching wet cleaning step requires the use of solvent of hydrofluoric acid.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 4. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 5. This application contains claims directed to the following patentably distinct species of the claimed invention:

If Group I is elected for further prosecution, this group contains the following patentably distinct species:

- the specie of fluorine based organic solvent, which includes fluoride acetate acid, as per the instant claim 2;
- the specie of fluorine based organic solvent, which includes ammonium fluoride, as per the instant claim 4.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, namely the specie described by claim 2 **or** claim 4, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims

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readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

6. A telephone call was made to Mr. C. Wu, esq., on 10/23/2002 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

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or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Kornakov whose telephone number is (703)

305-0400. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Randy Gulakowski can be reached on (703) 308-4333. The fax phone

numbers for the organization where this application or proceeding is assigned are (703)

872 9310 for regular communications and (703) 872 9311 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308

2450.

Michael Kornakov

Examiner

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M. KORVAROV

December 17, 2002

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